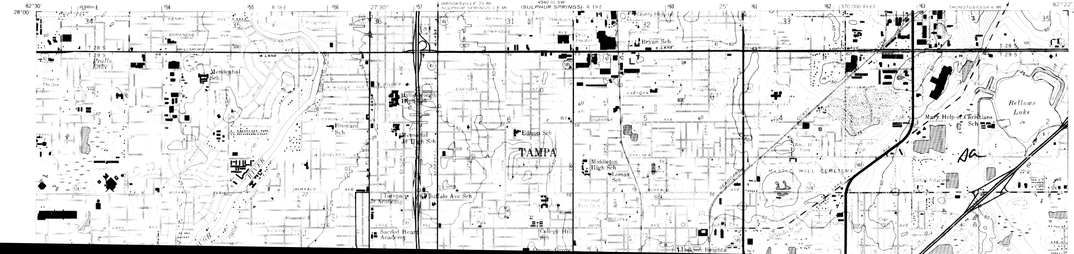
T 49 89/2:85 (15) MAP A15

I 49.89/2:85(15) map A15

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TAMPA QUADRANGLE
FLORIDA—HILLSBOROUGH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

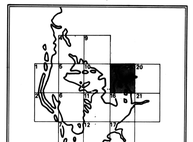


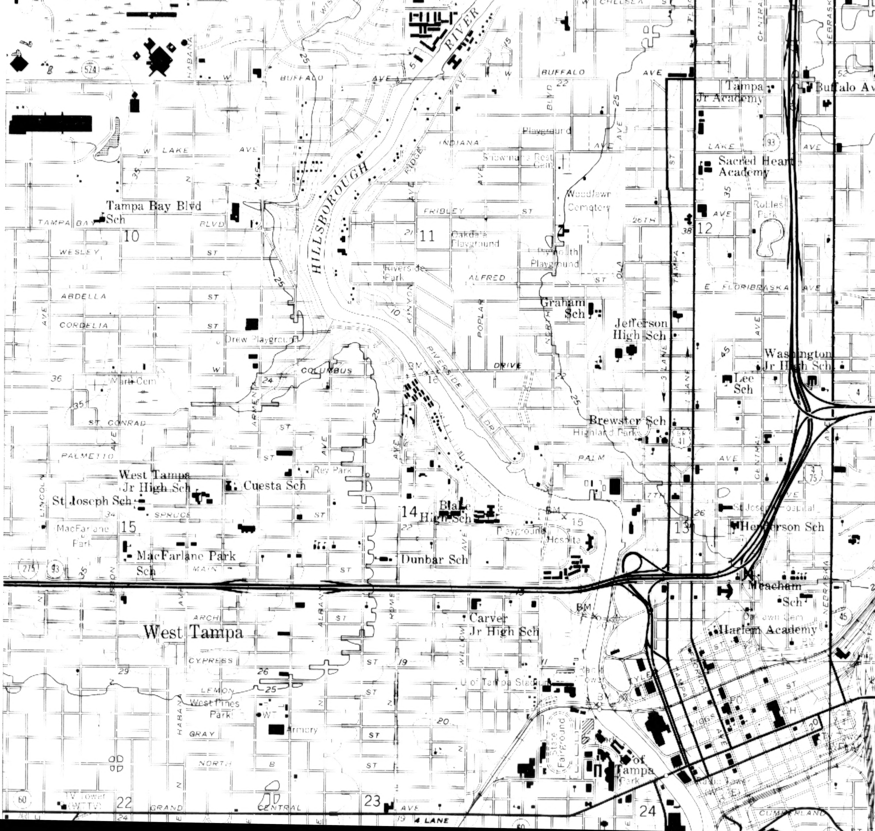
MAP A15

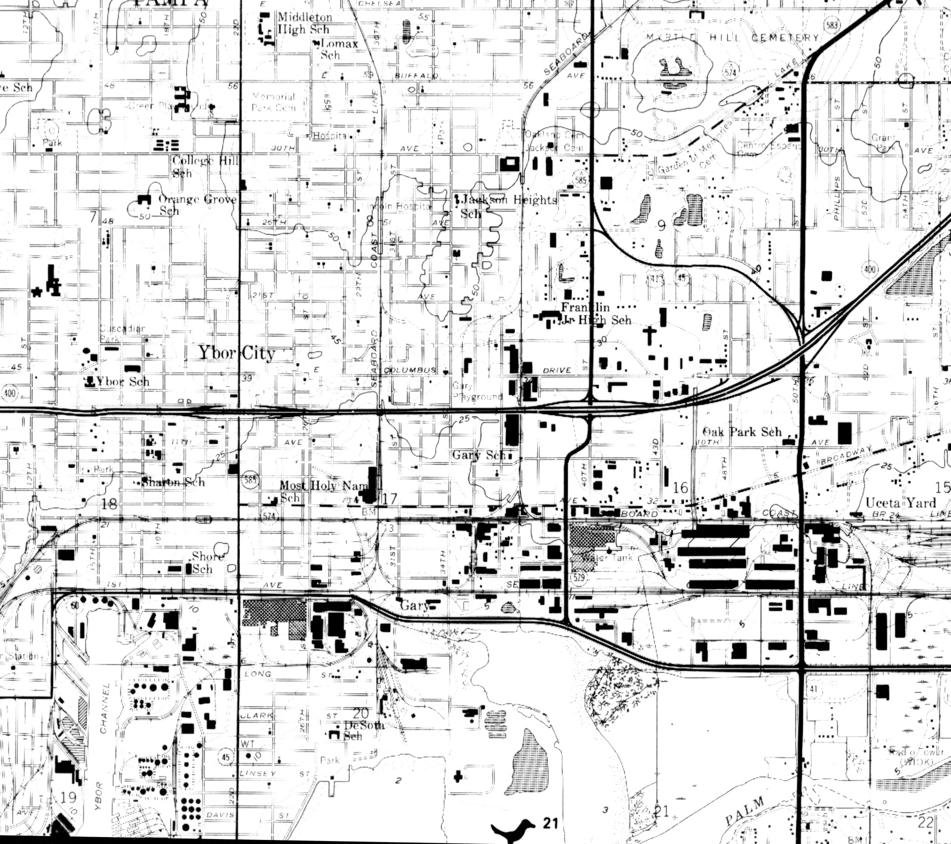
TAMPA BAY ENVIRONMENTAL ATLAS

BIOLOGICAL RESOURCES

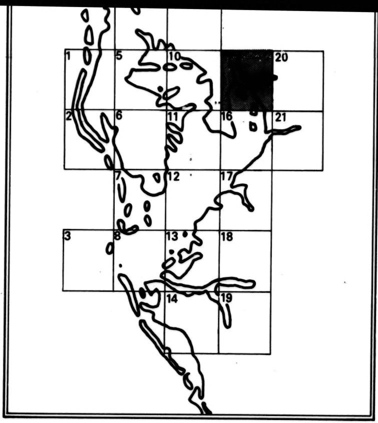
TAMPA




HILLSBOROUGH
RIVER
BUFFALO AVE
W LAKE AVE
Tampa Bay Blvd Sch
TAMPA BAY BLVD
WESLEY ST
ABDELLA ST
CORDELIA ST
Drew Playground
W COLUMBUS
Mark Cem
ST CONRAD
PALMETTO
West Tampa Jr High Sch
Cuesta Sch
Rey Park
St Joseph Sch
SPRUCE ST
MacFarlane Park
MacFarlane Park Sch
MAIN ST
Dunbar Sch
West Tampa
ARCHI ST
CYPRESS ST
LEMON
West Pines Park
GRAY
Armory
NORTH B ST
TV Tower (WFTV)
GRAND
CENTRAL AVE
4 LANE
INDIANA
Showmen's Rest Cem
FRIBLEY ST
Oakdale Playground
Riverside Park
ALFRED
KENYON
POPLAR
RIVERSIDE DRIVE
Blake High Sch
Playground
Hospital
Carver Jr High Sch
U of Tampa Stadium
State Fairground
Univ of Tampa Park
Playground
Woodlawn Cemetery
26TH
Plymouth Playground
Graham Sch
Jefferson High Sch
Brewster Sch
Highland Park
PALM AVE
7TH
Tampa Jr Academy
Buffalo Av
Sacred Heart Academy
Robles Park
E FLORIBRASKA AVE
Washington Jr High Sch
Lee Sch
St Joseph Hospital
Henderson Sch
Meacham Sch
Oaklawn Cem
Harlem Academy
TAMPA
FLORIDA
TWIGGS
CUMBERLAND
TYLER
CENTRAL
NEBRASKA
10
11
12
13
14
15
16
22
23
24
574
275
93
60
41
45
4
75
BM
25
35


Middleton High Sch
Lomax Sch
CHELSEA
BUFFALO
Memorial Park Cem
Hospital
Park
College Hill Sch
Orange Grove Sch
30TH AVE
26TH
21ST
AVE
Lincoln Hospital
Jackson Heights Sch
Myrtle Hill Cemetery
SEABOARD AVE
LAKE
Oakland Cem
Jackson Cem
Garden of Memories Cem
Centro Espanol Cem
Grant Park
30TH AVE
PHILLIPS
52D
54TH
ST
Franklin Jr High Sch
Cuscadian Park
Ybor City
Ybor Sch
COLUMBUS DRIVE
Gary Playground
SEABOARD
COAST LINE
27TH
31ST
Oak Park Sch
10TH AVE
BROADWAY
50TH
Gary Sch
11TH AVE
Sharon Sch
Most Holy Name Sch
40TH
43D
48TH
Ueceta Yard
SEABOARD COAST LINE
BR 24
BM
Shore Sch
Water Tank
1ST AVE
15TH
18TH
34TH
Gary
LONG ST
CLARK ST
DeSoto Sch
26TH
22D
WT
LINSEY ST
DAVIS ST
Park
YBOR CHANNEL
Station
Radio Tower (WIOK)
PALM
7
8
9
15
16
17
18
19
20
21
22
583
574
585
400
41
45
529
60
39
50
45
40
25
5
10

Centro Asturiano
40
574
50
Orient Park
11
Kenly Sch
30
25
14
10
60
RIVER
23


1
2
3
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6
7
8
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11
12
13
14
16
17
18
19
20
21

Scale 1:24,000

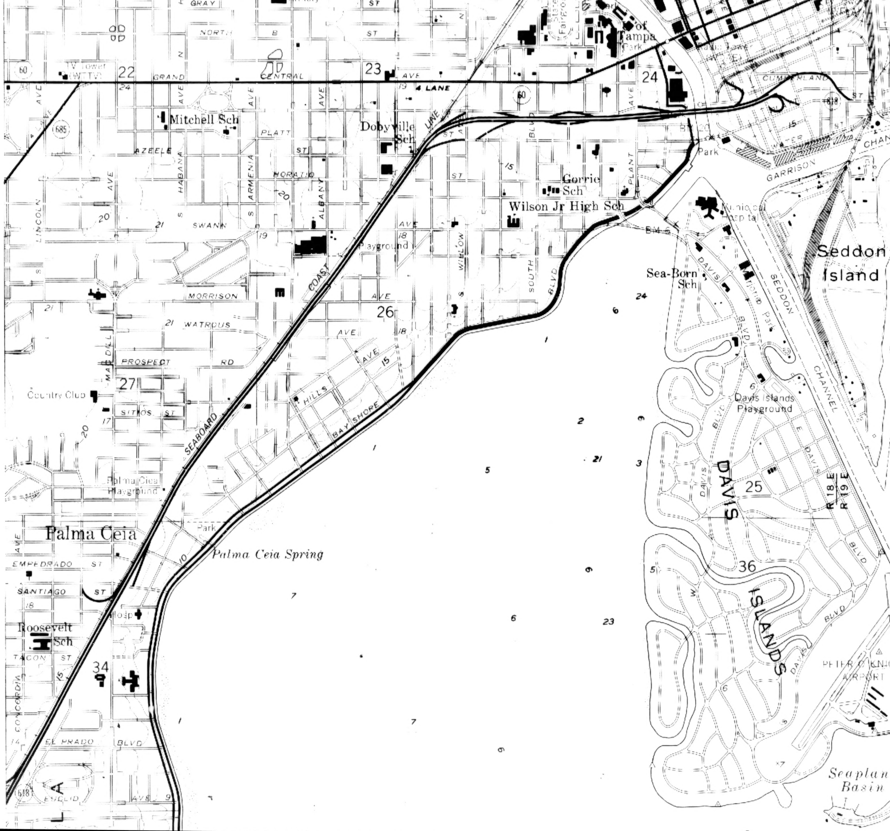
U.S. DEPARTMENT OF THE INTERIOR MARCH 3, 1849

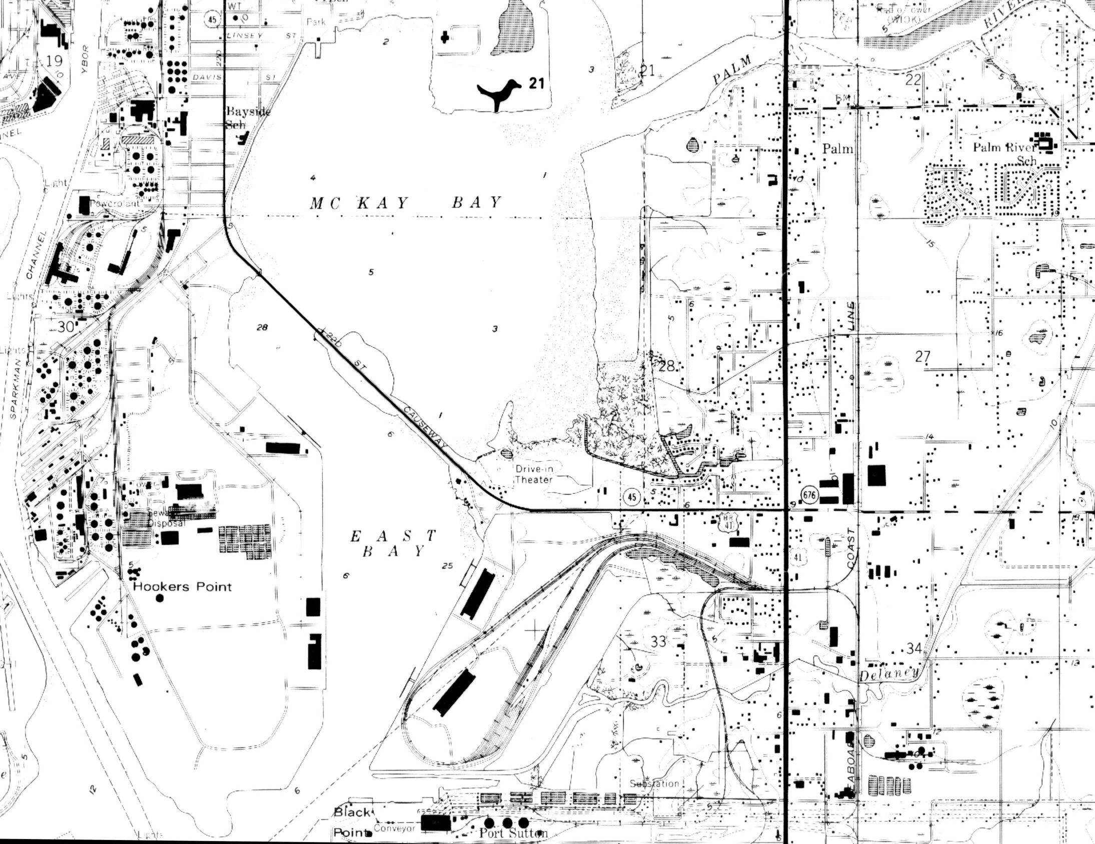
1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government


GRAY
ST
NORTH
B
ST
TV Tower (WTTV)
22
GRAND
CENTRAL
23
AVE
24
4 LANE
60
Mitchell Sch
Dobyville Sch
PLATT
AZEELE
HORATIO
ST
LINE
Gorrie Sch
Wilson Jr High Sch
Municipal Hospital
BM 5
SWANN
LINCOLN
HABANA
ARMENIA
ALBANY
AVE
Playground
WILLOW
SOUTH
BLVD
PLANT
Park
GARRISON
WATER
CUMBERLAND
CHANNEL
Seddon Island
SEDDON
Sea-Born Sch
DAVIS
MORRISON
WATRUS
PROSPECT
RD
26
HILLS
BAY SHORE
COAST
SEABOARD
MAC DILL
27
Country Club
SITIOS ST
Palma Ceia Playground
Palma Ceia
Park
Palma Ceia Spring
EMPEDRADO ST
SANTIAGO ST
Roosevelt Sch
TACON ST
CONCORDIA
34
Hosp
EL PRADO BLVD
EUCLID
AVE
618
685
Davis Islands Playground
DAVIS ISLANDS
25
36
R 18 E
R 19 E
PETER O KNIGHT AIRPORT
Seaplane Basin


19
YBOR
CHANNEL
SPARKMAN
CHANNEL
Light
Powerplant
Lights
30
Lights
WT
45
LINSEY ST
DAVIS ST
22D
Park
Bayside Sch
2
21
3
21
4
MC KAY BAY
1
5
28
3
22D ST CAUSEWAY
6
1
Drive-in Theater
45
EAST BAY
25
6
Tower
Sewage Disposal
Hookers Point
5
12
6
Black Point
Conveyor
Port Sutton
Substation
33
28
PALM RIVER
Radio Tower (WIOK)
22
BM
Palm
Palm River Sch
15
16
27
LINE
14
10
676
41
41
COAST
SEABOARD
34
Delaney
12
6
5

10
23
15
20
24
26
18
20
18
676
Creek
15
35
16
10

Transverse Mercator
10,000-foot grid ticks based on Florida coordinate
system, east and west zones

Overlay material compiled in 1984 from
latest available data obtained from
Federal, State and Local government
agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

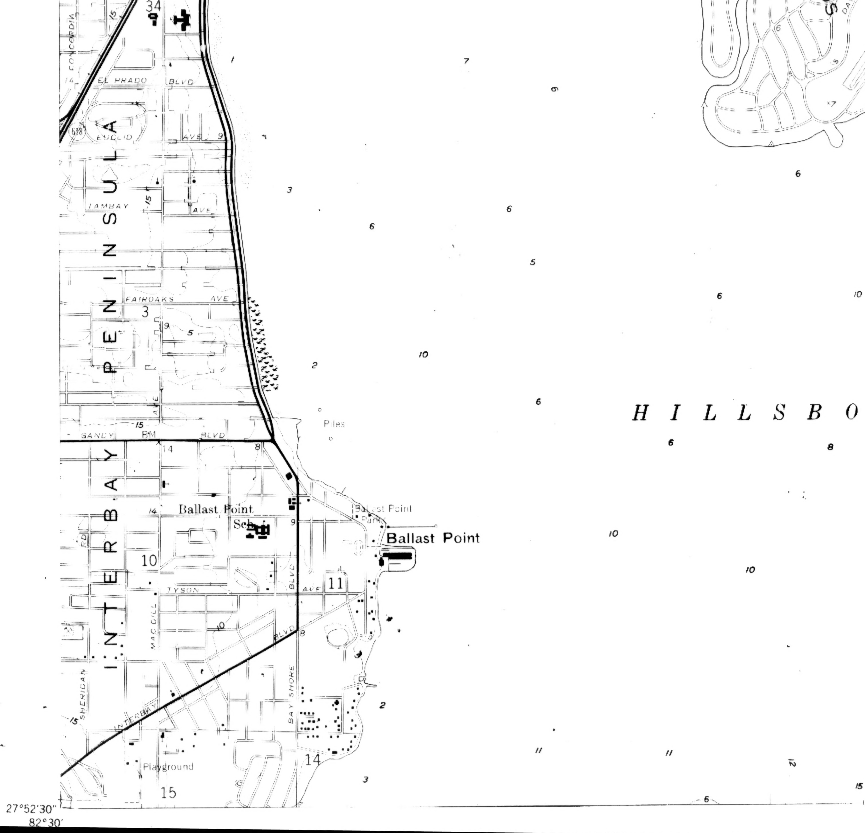
SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

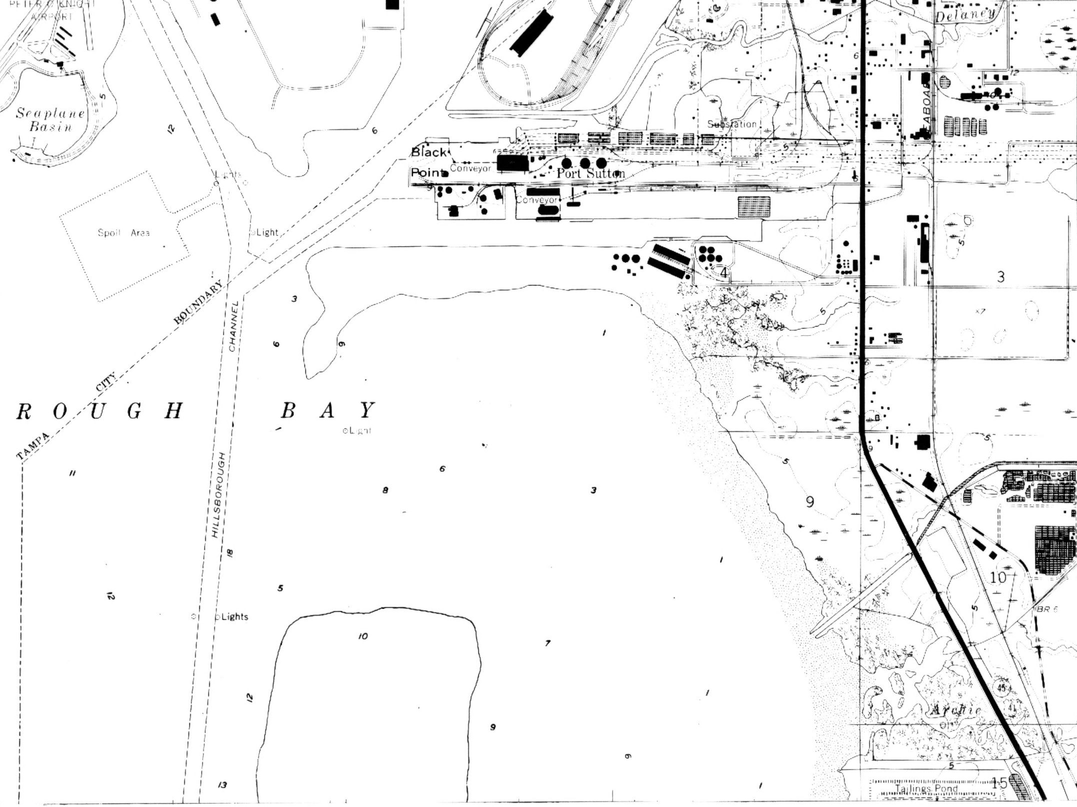
NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH CATEGORY Common Name	SPAWNING LOCATION[1]	SPAWNING SEASON J M M J S N	NURSERY AREA[1]	MAJOR NURSERY HABITATS Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water	AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	MIGRATION TYPE[2]
	ESTUARINE DEPENDENT FISHES																		
1	Red Drum	C		E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E		E	●	●	●					E	●	●					2


INTERBAY PENINSULA
HILLSBO
Ballast Point
Ballast Point Park
Ballast Point Sch
Piles
CONCORDIA
EL PRADO BLVD
EUCLID AVE
618
TAMBAY AVE
FAIROAKS AVE
GANDY BLVD
BM
TYSON AVE
MACDILL AVE
BAY SHORE BLVD
INTERBAY BLVD
SHERIDAN RD
Playground
34
3
10
11
14
15
27°52'30"
82°30'


PETER O KNIGHT
AIRPORT
Seaplane Basin
Spoil Area
Lights
Light
TAMPA CITY BOUNDARY
HILLSBOROUGH CHANNEL
ROUGH BAY
Light
Lights
Black Point
Conveyor
Port Sutton
Conveyor
Substation
Delaney
ABOAR
Archie
Tailings Pond
BR 6
45
41
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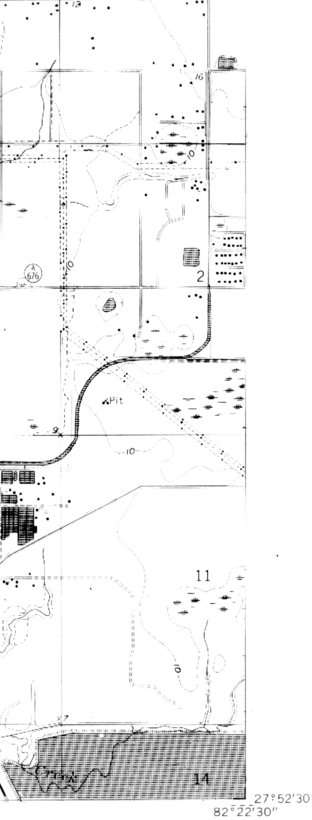
15

SCALE 1:24 000


12
16
10
2
A
676
Pit
9
10
11
10
x7
Creek
14
27°52'30
82°22'30"

FINFISH SPAWNING, NURSERY AND HARVEST AREAS

(Recreational Hook and Line Fishing)

SPECIES #	FINFISH	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
	CATEGORY Common Name	LOCATION[1]	SEASON													Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
			J		M		M		J		S		N																	
ESTUARINE DEPENDENT FISHES																														
1	Red Drum	C	▬	▬							▬	▬	▬	▬	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			▬	▬	▬	▬	▬	▬	▬	▬			E	●	●	●					E	●	●					2
3	Snook	C					▬	▬	▬						E	●	●	●					E	●	●					2
4	Sheepshead	C			▬	▬	▬								C	●							C-E			●		●		1
5	Southern Flounder	C									▬	▬	▬	▬	C-E	●			●				C-E	●		⊘				2
6	Florida Pompano	CS				▬	▬	▬	▬	▬	▬	▬			C-E				●				C-E			●			●	3
7	Striped Mullet	CS	▬									▬	▬	▬	E	●	●	●					E	●	●	●				3
8	Gulf Menhaden	C	▬	▬	▬								▬	▬	E	●	●	●					C-E	●		●			●	3
9	Spanish Sardine	C						▬	▬	▬	▬				E	●	●	●					C-E	●		●			●	3
10	Black Drum	C	▬	▬	▬	▬	▬						▬	▬	E	●	●	●					E	●	●	●				1
REEF FISHES																														
11	Red Grouper	CS			▬	▬	▬	▬							CS-C	●				●	●		CS				●	●		2
12	Jawfish	CS							▬	▬					CS-C	●				●	●		CS-C				●	●		2
13	Gag Grouper	CS	▬	▬	▬	▬								▬	CS-C	●				●	●		CS-C				●	●		2
14	Scamp	CS			▬	▬									CS	●				●	●		CS				●	●		2
15	Red Snapper	CS							▬	▬	▬	▬			CS-C	●				●	●		CS-C				●	●		2
16	Mangrove Snapper	CS				▬	▬	▬	▬	▬					C-E	●	●						C-E				●	●		2
COASTAL PELAGIC FISHES																														
17	King Mackerel	OCS					▬	▬	▬	▬	▬				CS							●	CS-C				●	●	●	4
18	Spanish Mackerel	CS					▬	▬	▬	▬	▬				CS							●	CS-C				●	●	●	4

[1] KEY:

E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

[2] MIGRATION TYPE:

1 — Residentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

COLONIAL BIRD NESTING SITE *

Number appearing with symbol indicates colony sites. Colony sites and species - composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican

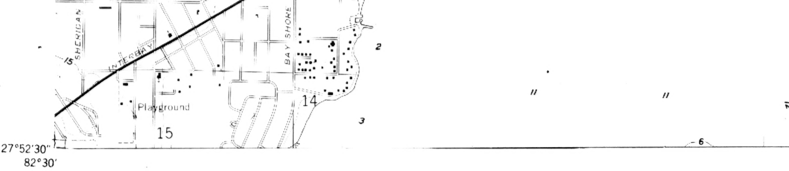
WEST INDIAN MANATEE HABITAT

MICROCOPY RESOLUTION TEST C

NBS - 1010a

(ANSI and ISO TEST CHART N

1.0



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

Selected areas on this U.S.G.S. base map updated using information extracted from aerial photography. This information not field checked.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Lindall and Sykes, 1972.

CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Three T's Clam Company, 1983. Mike Sprague, Draft Maps, Department of Natural Resources, 1984.

SCALLOP BEDS: Personal Communication, Mr Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moe, 1970.

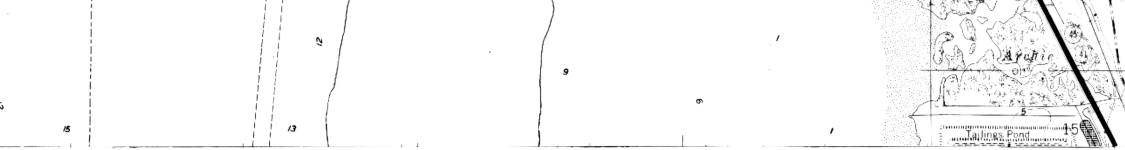
BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: 1976-78, Nesbitt, S.A., Ogden, J.C., Kale II, H.W., et.al. U.S. Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr H.W. Kale II, Florida Audubon Society, 1982

MA

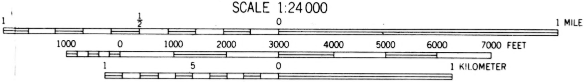
SE

AR

FO



SCALE 1:24 000

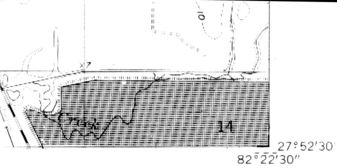


ANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

AGRASS BEDS: Tampa Bay Seagrass Maps, 1:10,000 and 1:24,000 Scales, Mangrove Systems. Inc. 1980 National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.

TIFICAL REEFS: Computer Printout of Florida Artifical Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida: Artifical and Natural, Florida Sea Grant Program, 1979.

R COMPLETE REFERENCE SEE MAP NARRATIVE



colony sites. Colony sites and species composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican

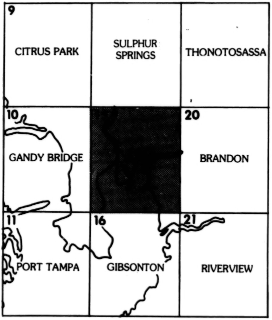
WEST INDIAN MANATEE HABITAT

STATE MANATEE SANCTUARY

▨ SEAGRASS BEDS

■ ARTIFICAL REEF*
(Permitted by Florida Dept. of Environmental Regulation)
Numbers next to reefs refer to composition data in narrative

*Symbols appearing with numbers are described more fully in the narrative.



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BEST AVAILABLE COPY

ICROCOPY RESOLUTION TEST CHART
NBS - 1010a
ANSI and ISO TEST CHART No. 2)
2.5
2.8
2.2
4.5
3.2
2.0

MICROCOPY RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6

MICROCOPY RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6